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Appl. No. : 09/855,340
Applicant : Hosted et al.
Filed : May 15, 2001
TC/AU : 1636
Examiner : Walter Schlapkohl
Docket No. : IN01164K US
Confirm. No.: 9296

**Declaration by Dr. Thomas Hosted, Jr. and Dr. Ann C. Horan
Under 37 C.F.R. § 1.131**

We, Dr. Thomas Hosted, Jr. and Dr. Ann C. Horan, co-inventors of the above-referenced patent application, declare as follows:

1. The *Xis* gene polynucleotide was isolated and the nucleotide sequence of the gene was identified to be as set forth in SEQ ID NO: 2 before the January 12, 2000 priority date of U.S. patent application publication no. 2004/0101832 and U.S. patent no. 6,861,513. Furthermore, all work set forth herein and in the exhibits hereto was performed at the Schering-Plough Research Institute which is located in Kenilworth, New Jersey, USA.
2. Enclosed exhibit A is a true copy of a page from co-inventor Hosted's laboratory notebook showing the sequence data referred to in paragraph 1 (dates redacted). The nucleotide and amino acid sequence labeled "Xis like" is the *Xis* sequence.
3. The *M. carbonacea* attP/attB region was isolated and the nucleotide sequence of the region was identified to be as set forth in SEQ ID NO: 6 before the January 12, 2000 priority date of U.S. patent application publication no. 2004/0101832 and U.S. patent no. 6,861,513.
4. Enclosed exhibit B is a true copy of a page from co-inventor Hosted's laboratory notebook showing the

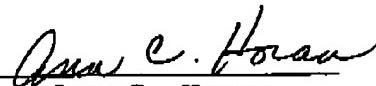
sequence data referred to in paragraph 3 (dates redacted). The notebook page of exhibit B includes a comparison between two nucleotide sequences. The bottom sequence, from nucleotides 188 to 434, is the attP/attB region of SEQ ID NO: 6.

5. All the above statements were made with the knowledge that willful false statements and the like are punishable by fine and/or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statement may jeopardize the validity of this application or any patent resulting therefrom.

Date: 7/11/2006


Thomas J. Hosted, Jr.

Date: 6/22/2006


Ann C. Horan

Integrase regions

X-5
like

ATT 
regarding

Initial
report
received

Intergen region A Work (3550 bp)

Redo analysis on
potentive att P regions

- 30 -

Edge+custom(MWG) vs Edge#H custom (Seqright)*

1	CCCTCGTACTCTCGATCGCGTNCGGATCTGCTGTACGGCACCTGCAGGAGGTCGA	60
61	CGAGGGGATCCCTCGCGATCGAGGAGGCATGGCCGCCCTCCGGCTGAGGACCTGGA	120
121	GGCGGAACCTCGACGAGGAGCTGACGGACGTGTGGCCGACCGAGCACTCAACTCTAGG	12
13	GGAGGGGTAGGGAAATCCACTCCGAGACGCCGGAGCAATCCGAGCATGAGGAGCAA	180
181	GGAGGGGTAGGGAAATCCACTCCGAGACGCCGGAGCAATCCGAGCATGAGGAGCAA	72
73	CCASCAQBTCAAGTGGCTGTGACCCCCCTGACCAAGGGCCCCGTACGG-TTCAATTCCC	240
241	CCAGCAGGTCAAGTGGCTGTGACCCCCCTGACCAAGGGCCCCGTACGGTTCAATTCCC	181
132	ATCAGTCAACCGTACACGAAGGCGCCCTCCACTCGGAGGGAGCCCTTCCGGCTTCCGTAGG	900
301	ATCAGTCAACCGTACACGAAGGCCCCCTCCACTCGGAGGGAGCCCTTCCGGCTTCCGTAGG	181
192	ATTCGGCGGTCAAGGCGGTGGGCTCGGCGCTGGGGAAATCGGCCCCGTCGAGGGAGTGGCC	360
361	GTTCGCGGTCAAGGCGGTGGGCTCGGCGCTGGGGAACTCGGCCCCGTCGAGGGAGTGGCC	261
252	TGCGCGTCCCGGGAGGGCGTGGCGTCCGGTGTGGCGTCCCGTGTGGCGTCCCGTGTGGCG	429
421	TGCGCGTCCCGGGAGGGCGTGGCGTCCGGTGTGGCGTCCCGTGTGGCGTCCCGTGTGGCG	311
312	TGCGCGTCCAGGTATGTTCCAGTCGGTCCAGGCCGTGGCGTGTGGCGTGGCGTGTGGCG	480
481	TGCGCGTCCAGGTATGTTCCAGTCGGTCCAGGCCGTGGCGTGTGGCGTGGCGTGTGGCG	371
372	CCCTTGACGGTGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGT	540
541	CCCTTGACGGTGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGTGGCGT	429
430	TCAATCGAGACGTTGACCCAGCCGTGGAGACGTTGACCGTGGCGTGGCGTGGCGTGGCG	600
601	TCAATCGAGACGTTGACCCAGCCGTGGAGACGTTGACCGTGGCGTGGCGTGGCGTGGCG	489
480	-AGGGGGCGGGGTGGATG-AACCTGGCGGCGGAGGTGAGGGCGTGGCGTGGCGTGGCG	560
661	CAGGGGGCGGGGTGGATGAACTGGCGGCGGAGGTGAGGGCGTGGCGTGGCGTGGCG	547
548	CGTGGGGTACCTCTCTGGGACCCAGCTCTCGAAGGTGTCAAAGACGGTCTTGCCTAGT	607
608	TTCTGGGATGACCAACGATGGTTCGGTGGACCAACGGCGTGGCTTGTGGCGAGGCTGAC	667
668	GGGG	671

PSLH870-4 (See Notebook A 52818 pg 103)

B40 PsiI edge card 4

(0071 bp)

Hygromycin resistance & lectinase

* MWG + Seqright are the companies
from which the sequencing
data was obtained.